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*09095101 RE 37593 March 19, 2002***UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT  
RE 37593**

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**March 19, 2002**

Large scale integrated circuit with sense amplifier circuits for low voltage operation  
INVENTOR: Etoh, Jun - Hachioji, Japan (JP); Itoh, Kiyoo - Higashikurume, Japan (JP); Kawajiri, Yoshiki - Hachioji, Japan (JP); Nakagome, Yoshinobu - Hachioji, Japan (JP); Kume, Eiji - Hachioji, Japan (JP); Tanaka, Hitoshi - Tachikawa, Japan (JP)

**APPL-NO:** 09095101**FILED-DATE:** June 10, 1998**GRANTED-DATE:** March 19, 2002**PRIORITY:** June 17, 1988 - 63-148104, Japan (JP); September 7, 1988 - 63-222317, Japan (JP); February 20, 1989 - 1-29803, Japan (JP); March 20, 1989 - 1-66175, Japan (JP)**ASSIGNEE-AT-ISSUE:** Hitachi, Ltd., Tokyo, Japan (JP), 03; Hitachi ULSI Systems Co., Ltd., Tokyo, Japan (JP), 03**LEGAL-REP:** Mattingly, Stanger & Malur, P.C.**PUB-TYPE:** March 19, 2002 - Reissue Patent (E1)**PUB-COUNTRY:** United States (US)**REL-DATA:**

Continuation of Ser. No. 07/366869, June 14, 1989, GRANTED PATENT 5297097, Utility Patent having no previously published pre-grant publication (A); Reissue of: 08/104508, August 10, 1993, PENDING 05526313, June 11, 1996

**US-MAIN-CL:** 365#18909**US-ADDL-CL:** 365#205, 365#226, 327#530, 327#534**SEARCH-FLD:** 365#18909 , 365#18911 , 365#226 , 365#205 , 327#530 , 327#534 , 327#537 , 327#538**IPC-MAIN-CL:** 7G 11C007#0**IPC ADDL CL:** H 02J003#38

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patno=37593

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Terms: **patno=5526313** ([Edit Search](#))

08104508 5526313 June 11, 1996

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT  
**5526313**

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June 11, 1996

Large scale integrated circuit with sense amplifier circuits for low voltage operation  
**REISSUE:** March 19, 2002 - This Patent was reissued on Mar. 19, 2002 as Reissue Patent Re 37,593. Reissue Application filed May 25, 2001 (O.G. Dec. 4, 2001) Ex. Gp.: 2818; Re. S.N. 09/864,338 December 4, 2001

**INVENTOR:** Etoh, Jun, Hachioji, JPX; Itoh, Kiyoo, Higashikurume, JPX; Kawajiri, Yoshiki, Hachioji, JPX; Nakagome, Yoshinobu, Hachioji, JPX; Kume, Eiji, Hachioji, JPX; Tanaka, Hitoshi, Tachikawa, JPX

**APPL-NO:** 08104508

**FILED-DATE:** August 10, 1993

**GRANTED-DATE:** June 11, 1996

**PRIORITY:** June 17, 1988 - 63-148104, Japan (JP); September 7, 1988 - 63-222317, Japan (JP); February 10, 1989 - 1-29803, Japan (JP); March 20, 1989 - 1-66175, Japan (JP)

**ASSIGNEE-AT-ISSUE:** Hitachi Ltd., Tokyo, JPX; Hitachi VLSI Engineering Corporation, Tokyo, JPX

**ASSIGNEE-AFTER-ISSUE:** November 30, 1998 - CHANGE OF NAME (SEE DOCUMENT FOR DETAILS), HITACHI ULSI SYSTEMS CO., LTD. 22-1, JOSUIHONCHO 5-CHOME KODAIRA-SHI, TOKYO, JAPAN,, Reel and Frame Number: 009605/0357

**LEGAL-REP:** Fay, Sharpe, Beall, Fagan, Minnich & McKee

**PUB-TYPE:** June 11, 1996 - Utility Patent having no previously published pre-grant publication (A)

**PUB-COUNTRY:** United States (US)

**REL-DATA:**  
Addition of Ser. No. 5297097; Addition of Ser. No. 366869, June 14, 1989

**US-MAIN-CL:** 365#205

**US-ADDL-CL:** 365#190, 365#203

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07366869 5297097 March 22, 1994

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT  
**5297097**[Access PDF of Official Patent.](#)  
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March 22, 1994

Large scale integrated circuit for low voltage operation

**REISSUE:** June 10, 1998 - Reissue Application filed Jun. 10, 1998 (O.G. Mar. 23, 1999) Ex. Gp.: 2818; Re. S.N. 09/095,101 March 23, 1999**INVENTOR:** Etoh, Jun, Hachioji, JPX; Itoh, Kiyoo, Higashikurume, JPX; Kawajiri, Yoshiki, Hachioji, JPX; Nakagome, Yoshinobu, Hachioji, JPX; Kume, Eiji, Hachioji, JPX; Tanaka, Hitoshi, Tachikawa, JPX**APPL-NO:** 07366869**FILED-DATE:** June 14, 1989**GRANTED-DATE:** March 22, 1994**PRIORITY:** June 17, 1988 - 63-148104, Japan (JP); September 7, 1988 - 63-222317, Japan (JP); February 10, 1989 - 1-29803, Japan (JP); March 20, 1989 - 1-66175, Japan (JP)**ASSIGNEE-AT-ISSUE:** Hitachi Ltd., Tokyo, JPX; Hitachi VLSI Engineering, Tokyo, JPX**ASSIGNEE-AFTER-ISSUE:** June 14, 1989 - ASSIGNMENT OF ASSIGNORS INTEREST., HITACHI LTD., 6, KANDA SURUGADAI 4-CHOME, CHIYODA-KU, TOKYO, JAPAN A CORP. OF JAPAN, HITACHI VLSI ENGINEERING, 20-1, JOUSUIHONCHO 5-CHOME, KODAIRA-SHI, TOKYO, JAPAN A CORP. OF JAPAN,, Reel and Frame Number: 005098/0677**LEGAL-REP:** Fay, Sharpe, Beall, Fagan, Minnich & McKee**PUB-TYPE:** March 22, 1994 - Utility Patent having no previously published pre-grant publication (A)**PUB-COUNTRY:** United States (US)**US-MAIN-CL:** 365#226**US-ADDL-CL:** 327#530, 365#18909, 365#203, 365#229**SEARCH-FLD:** 365###226 , 365###227 , 365###228 , 365###229 , 365###203 , 365###222 , 365###18909 , 365###18911 , 307###2961 , 307###2966 , 307###2968

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patno=5297097

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Terms: **patno=5262999** ([Edit Search](#))

07838505 5262999 November 16, 1993

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT  
**5262999**

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November 16, 1993

Large scale integrated circuit for low voltage operation

**INVENTOR:** Etoh, Jun, Hachioji, JPX; Itoh, Kiyoo, Higashihurume, JPX; Kawajiri, Yoshiki, Hachioji, JPX; Nakagome, Yoshinobu, Hachioji, JPX; Kume, Eiji, Hachioji, JPX; Tanaka, Hitoshi, Tachikawa, JPX

**APPL-NO:** 07838505

**FILED-DATE:** March 24, 1992

**GRANTED-DATE:** November 16, 1993

**PRIORITY:** June 17, 1988 - 63-148104, Japan (JP); September 7, 1988 - 63-222317, Japan (JP); February 10, 1989 - 1-29803, Japan (JP); March 20, 1989 - 1-66175, Japan (JP)

**ASSIGNEE-AT-ISSUE:** Hitachi, Ltd., Tokyo, JPX; Hitachi VLSI Engineering Corporation, Tokyo, JPX

**LEGAL-REP:** Fay, Sharpe, Beall, Fagan, Minnich & McKee

**PUB-TYPE:** November 16, 1993 - Utility Patent having no previously published pre-grant publication (A)

**PUB-COUNTRY:** United States (US)

**REL-DATA:**  
Addition of Ser. No. 366869, June 14, 1989

**US-MAIN-CL:** 365#226

**US-ADDL-CL:** 365#203, 365#227, 365#229

**SEARCH-FLD:** 365##203, 365##226, 365##227, 365##228, 365##229, 365##18909, 365##18911, 307##2961, 307##2966, 307##2968

**IPC-MAIN-CL:** G 11C005#14

**IPC ADDL CL:** G 11C007#0

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RE 37593

09/864338

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Search statement 1

?re37593/pn

\*\* SS 1: Results 1

Search statement 2

?prt fu legalall max

1/1 PLUSPAT - (C) QUESTEL-ORBIT  
PN - USRE37593 E1 20020319 [USRE37593]  
TI - (E1) Large scale integrated circuit with sense amplifier circuits for  
low voltage operation  
PA - (E1) HITACHI ULSI SYS CO LTD (JP); HITACHI LTD (JP)  
IN - (E1) KUME EIJI (JP); ETOH JUN (JP); ITOH KIYOO (JP); TANAKA HITOSHI  
(JP); KAWAJIRI YOSHIKI (JP); NAKAGOME YOSHINOBU (JP)  
AP - US9510198 19980610 [1998US-0095101]  
PR - US9510198 19980610 [1998US-0095101]  
- JP14810488 19880617 [1988JP-0148104]  
- JP22231788 19880907 [1988JP-0222317]  
- JP2980389 19890210 [1989JP-0029803]  
- JP6617589 19890320 [1989JP-0066175]  
- US10450893 19930810 [1993US-0104508]  
- US36686989 19890614 [1989US-0366869]  
IC - (E1) G11C-007/00 H02J-003/38  
EC - G11C-005/14R  
- G11C-011/406  
- G11C-011/4074  
- G11C-011/4096  
PCL - ORIGINAL (O) : 365189090; CROSS-REFERENCE (X) : 327530000 327534000  
365205000 365226000  
DT - Corresponding document  
CT - US3980935; US4161040; US4288865; US4290119; US4399524; US4460835;  
US4482985; US4539660; US4730122; US4780850; US4780852; US4794564;  
US4833341; US4855613; US4896297; US4916667; US4931075; US4937789;  
US4943952; US4943960; US4952825; US4961166; US4962482; US4982367;  
US4984202; US4994688; US5046052; US5148255; US5227697; US5272393;  
JP53-12280; JP53-114625; JP54-158848; JP55-038611; JP56-105389;  
JP56-130894; JP56-159892; JP57-82285; JP57-172761; JP58-070482;  
JP58-108089; JP59-151389; JP60-45997; JP60-167523; JP60-242585;  
JP61-61479; JP61-148700; JP61-158094; JP61-217986; JP62-015910;  
JP62-112357; JP62-119958; JP62-183161; JP62-208496; JP63-037716;  
JP63-64694; JP63-76007; JP63-94499; JP63-086559; JP63-179576;  
JP63-211193; JP63-282994; JP63-299409; JP63-308791; JP63-308792;  
JP1-105391; JP1-149292; JP1-149293  
- IEEE Journal of Solid State Circuits, vol. 23, No. 1, pp. 12-18, Feb.  
1988.\*

NEC 4-bit Microprocessor Handbook, p. 148 (no English translation).\*

8/8/02

RE 37593

09/864338

Hitachi IC Memory Data Book, Hitachi, Ltd., Tokyo, pp. 44-45, Jun. 1987.

STG - (E1) Reissue Patent

AB - Disclosed is a one-chip ULSI which can carry out the fixed operation in a wide range of power supply voltage (1 V to 5.5 V). This one-chip ULSI is composed of a voltage converter circuit(s) which serves to a fixed internal voltage for a wide range of power supply voltage, an input/output buffer which can be adapted to several input/output levels, a dynamid RAM(s) which can operate at a power supply voltage of 2 V or less, etc. This one-chip ULSI can be applied to compact and portable electronic devices such as a lap-top type personal computer, an electronic pocket note book, a solid-state camera, etc.

UP - 2002-14

1/1 LGST - (C) LEGSTAT

PN - US 37593 [USRE37593]

AP - US 95101/98 19980610 [1998US-0095101]

DT - US-E

ACT - 19980610 US/AE-A

APPLICATION DATA (PATENT)

{US 95101/98 19980610 [1998US-0095101]}

- 20020319 US/E1 [+]

REISSUE (PRE-GRANT)

UP - 2002-15

1/1 PAST - (C) Thomson Derwent

AN - 200212-001769

PN - 5526313 A [US5526313]

DT - A (UTILITY)

OG - 2002-03-19

CO - RE

ACT - REISSUE PATENT

SH - REISSUE PATENT

RL - USRE37593

Search statement 2

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Selected file: INPADOC

?fam us5526313/pn

1 Patent Groups

\*\* SS 3: Results 25

Search statement 4

?famstate nonstop

1/25 INPADOC - (C) INPADOC

PN - DE 68903091 C0 19921105 [DE68903091]

TI - SCHEIBENWISCHER.

IN - ARAI LTD [JP]; SAITA LTD [JP]

PA - NIPPON WIPER BLADE CO LTD [JP]

8/8/02

RE 37593

09/864338

AP - DE 89311562/89-EP 19891108 [1989EP-0311562]  
PR - JP 148104/88-U 19881115 [1988JP-U148104]  
- JP 11415/89-U 19890203 [1989JP-U011415]  
- JP 13615/89-U 19890209 [1989JP-U013615]  
IC - B60S-001/32

1/2 LEGALI - (C) LEGSTAT

PN - DE 68903091 [DE68903091]

DT - DE-P

ACTE- 19921105 DE/REF-P

CORRESPONDS TO

(EP 369672 19921105 [EP-369672])

- 19930225 DE/8373

TRANSLATION OF PATENT DOCUMENT OF EUROPEAN PATENT WAS RECEIVED AND HAS  
BEEN PUBLISHED

- 19931028 DE/8364 [+]

NO OPPOSITION DURING TERM OF OPPOSITION

- 19981210 DE/8339 [-]

CEASED/NON-PAYMENT OF THE ANNUAL FEE

UP - 1998-51

2/2 LEGALI - (C) LEGSTAT

PN - EP 369672 [EP-369672]

AP - EP 89311562/89 19891108 [1989EP-0311562]

DT - EP-P

ACTE- 19891108 EP/AE-A

EP-APPLICATION

{EP 89311562/89 19891108 [1989EP-0311562]}

- 19900523 EP/AK-A2 [+]

DESIGNATED CONTRACTING STATES IN AN APPLICATION WITHOUT SEARCH REPORT:  
DE FR GB

- 19900523 EP/A2 [+]

PUBLICATION OF APPLICATION WITHOUT SEARCH REPORT

- 19900530 EP/RPR1

PRIORITY (CORRECTION)

JP 881115 148104/88 U \* JP 890203 11415/89 U \* JP 890209 13615/89  
U

- 19901107 EP/AK-A3 [+]

DESIGNATED CONTRACTING STATES IN A SEARCH REPORT:

DE FR GB

- 19901107 EP/A3 [+]

SEPARATE PUBLICATION OF THE SEARCH REPORT (ART. 93)

- 19910220 EP/17P [+]

REQUEST FOR EXAMINATION FILED

901219

- 19920122 EP/17Q [+]

FIRST EXAMINATION REPORT

911209

- 19920930 EP/AK-B1 [+]

DESIGNATED CONTRACTING STATES MENTIONED IN A PATENT SPECIFICATION:

DE FR GB

- 19920930 EP/B1 [+]

PATENT SPECIFICATION

- 19921105 EP/REF-P

CORRESPONDS TO:

(DE 68903091 19921105 [DE68903091])

- 19921113 EP/ET [+]

FR: TRANSLATION FILED

8/8/02

RE 37593

09/864338

- 19930922 EP/26N [+]  
NO OPPOSITION FILED  
- 19980701 EP/GBPC [-]  
GB: EUROPEAN PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE  
971108  
- 19981002 EP/REG; FR/ST [-]  
FR: LAPSED  
<FR>  
UP - 1998-46

2/25 INPADOC - (C) INPADOC  
PN - DE 68903091 T2 19930225 [DE68903091]  
TI - SCHEIBENWISCHER.  
IN - ARAI LTD [JP]; SAITA LTD [JP]  
PA - NIPPON WIPER BLADE CO LTD [JP]  
AP - EP 89311562/89-EP 19891108 [1989EP-0311562]  
PR - JP 148104/88-U 19881115 [1988JP-U148104]  
- JP 11415/89-U 19890203 [1989JP-U011415]  
- JP 13615/89-U 19890209 [1989JP-U013615]  
IC - B60S-001/32

1/2 LEGALI - (C) LEGSTAT  
PN - DE 68903091 [DE68903091]  
DT - DE-P  
ACTE- 19921105 DE/REF-P  
CORRESPONDS TO  
{EP 369672 19921105 [EP-369672]}  
- 19930225 DE/8373  
TRANSLATION OF PATENT DOCUMENT OF EUROPEAN PATENT WAS RECEIVED AND HAS  
BEEN PUBLISHED  
- 19931028 DE/8364 [+]  
NO OPPOSITION DURING TERM OF OPPOSITION  
- 19981210 DE/8339 [-]  
CEASED/NON-PAYMENT OF THE ANNUAL FEE  
UP - 1998-51

2/2 LEGALI - (C) LEGSTAT  
PN - EP 369672 [EP-369672]  
AP - EP 89311562/89 19891108 [1989EP-0311562]  
DT - EP-P  
ACTE- 19891108 EP/AE-A  
EP-APPLICATION  
{EP 89311562/89 19891108 [1989EP-0311562]}  
- 19900523 EP/AK-A2 [+]  
DESIGNATED CONTRACTING STATES IN AN APPLICATION WITHOUT SEARCH REPORT:  
DE FR GB  
- 19900523 EP/A2 [+]  
PUBLICATION OF APPLICATION WITHOUT SEARCH REPORT  
- 19900530 EP/RPR1  
PRIORITY (CORRECTION)  
JP 881115 148104/88 U \* JP 890203 11415/89 U \* JP 890209 13615/89  
U  
- 19901107 EP/AK-A3 [+]  
DESIGNATED CONTRACTING STATES IN A SEARCH REPORT:  
DE FR GB  
- 19901107 EP/A3 [+]  
SEPARATE PUBLICATION OF THE SEARCH REPORT (ART. 93)

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RE 37593

09/864338

- 19910220 EP/17P [+] REQUEST FOR EXAMINATION FILED 901219
- 19920122 EP/17Q [+] FIRST EXAMINATION REPORT 911209
- 19920930 EP/AK-B1 [+] DESIGNATED CONTRACTING STATES MENTIONED IN A PATENT SPECIFICATION: DE FR GB
- 19920930 EP/B1 [+] PATENT SPECIFICATION
- 19921105 EP/REF-P CORRESPONDS TO: (DE 68903091 19921105 [DE68903091])
- 19921113 EP/ET [+] FR: TRANSLATION FILED
- 19930922 EP/26N [+] NO OPPOSITION FILED
- 19980701 EP/GBPC [-] GB: EUROPEAN PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE 971108
- 19981002 EP/REG; FR/ST [-] FR: LAPSED <FR>
- UP - 1998-46

3/25 INPADOC - (C) INPADOC

PN - EP 369672 A2 19900523 [EP-369672]  
TI - WINDSHIELD WIPER  
LA - E; ENG  
IN - ARAI MASARU C O NIPPON WIPERBL; SAITA ITSURO C O NIPPON WIPERB  
PA - NIPPON WIPER BLADE CO LTD [JP]  
AP - EP 89311562/89-A 19891108 [1989EP-0311562]  
PR - JP 148104/88-A 19881115 [1988JP-0148104]  
- JP 11415/89-A 19890203 [1989JP-0011415]  
- JP 13615/89-A 19890209 [1989JP-0013615]  
IC - B60S-001/32  
DS - DE\* FR\* GB\*

1/2 LEGALI - (C) LEGSTAT

PN - DE 68903091 [DE68903091]  
DT - DE-P  
ACTE- 19921105 DE/REF-P  
CORRESPONDS TO (EP 369672 19921105 [EP-369672])  
- 19930225 DE/8373  
TRANSLATION OF PATENT DOCUMENT OF EUROPEAN PATENT WAS RECEIVED AND HAS BEEN PUBLISHED  
- 19931028 DE/8364 [+] NO OPPOSITION DURING TERM OF OPPOSITION  
- 19981210 DE/8339 [-] CEASED/NON-PAYMENT OF THE ANNUAL FEE  
UP - 1998-51

2/2 LEGALI - (C) LEGSTAT

PN - EP 369672 [EP-369672]  
AP - EP 89311562/89 19891108 [1989EP-0311562]

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09/864338

DT - EP-P  
ACTE- 19891108 EP/AE-A  
EP-APPLICATION  
{EP 89311562/89 19891108 [1989EP-0311562]}  
- 19900523 EP/AK-A2 [+]  
DESIGNATED CONTRACTING STATES IN AN APPLICATION WITHOUT SEARCH REPORT:  
DE FR GB  
- 19900523 EP/A2 [+]  
PUBLICATION OF APPLICATION WITHOUT SEARCH REPORT  
- 19900530 EP/RPR1  
PRIORITY (CORRECTION)  
JP 881115 148104/88 U \* JP 890203 11415/89 U \* JP 890209 13615/89  
U  
- 19901107 EP/AK-A3 [+]  
DESIGNATED CONTRACTING STATES IN A SEARCH REPORT:  
DE FR GB  
- 19901107 EP/A3 [+]  
SEPARATE PUBLICATION OF THE SEARCH REPORT (ART. 93)  
- 19910220 EP/17P [+]  
REQUEST FOR EXAMINATION FILED  
901219  
- 19920122 EP/17Q [+]  
FIRST EXAMINATION REPORT  
911209  
- 19920930 EP/AK-B1 [+]  
DESIGNATED CONTRACTING STATES MENTIONED IN A PATENT SPECIFICATION:  
DE FR GB  
- 19920930 EP/B1 [+]  
PATENT SPECIFICATION  
- 19921105 EP/REF-P  
CORRESPONDS TO:  
(DE 68903091 19921105 [DE68903091])  
- 19921113 EP/ET [+]  
FR: TRANSLATION FILED  
- 19930922 EP/26N [+]  
NO OPPOSITION FILED  
- 19980701 EP/GBPC [-]  
GB: EUROPEAN PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE  
971108  
- 19981002 EP/REG; FR/ST [-]  
FR: LAPSED  
<FR>  
UP - 1998-46

4/25 INPADOC - (C) INPADOC

PN - EP 369672 A3 19901107 [EP-369672]  
TI - WINDSHIELD WIPER  
LA - E; ENG  
IN - ARAI MASARU C O NIPPON WIPERBL; SAITA ITSURO C O NIPPON WIPERB  
PA - NIPPON WIPER BLADE CO LTD [JP]  
AP - EP 89311562/89-A 19891108 [1989EP-0311562]  
PR - JP 148104/88-A 19881115 [1988JP-0148104]  
- JP 11415/89-A 19890203 [1989JP-0011415]  
- JP 13615/89-A 19890209 [1989JP-0013615]  
IC - B60S-001/32  
DS - DE\* FR\* GB\*

8/8/02

RE 37593

09/864338

1/2 LEGALI - (C) LEGSTAT

PN - DE 68903091 [DE68903091]

DT - DE-P

ACTE- 19921105 DE/REF-P

CORRESPONDS TO

(EP 369672 19921105 [EP-369672])

- 19930225 DE/8373

TRANSLATION OF PATENT DOCUMENT OF EUROPEAN PATENT WAS RECEIVED AND HAS BEEN PUBLISHED

- 19931028 DE/8364 [+]

NO OPPOSITION DURING TERM OF OPPOSITION

- 19981210 DE/8339 [-]

CEASED/NON-PAYMENT OF THE ANNUAL FEE

UP - 1998-51

2/2 LEGALI - (C) LEGSTAT

PN - EP 369672 [EP-369672]

AP - EP 89311562/89 19891108 [1989EP-0311562]

DT - EP-P

ACTE- 19891108 EP/AE-A

EP-APPLICATION

{EP 89311562/89 19891108 [1989EP-0311562]}

- 19900523 EP/AK-A2 [+]

DESIGNATED CONTRACTING STATES IN AN APPLICATION WITHOUT SEARCH REPORT:  
DE FR GB

- 19900523 EP/A2 [+]

PUBLICATION OF APPLICATION WITHOUT SEARCH REPORT

- 19900530 EP/RPR1

PRIORITY (CORRECTION)

JP 881115 148104/88 U \* JP 890203 11415/89 U \* JP 890209 13615/89  
U

- 19901107 EP/AK-A3 [+]

DESIGNATED CONTRACTING STATES IN A SEARCH REPORT:  
DE FR GB

- 19901107 EP/A3 [+]

SEPARATE PUBLICATION OF THE SEARCH REPORT (ART. 93)

- 19910220 EP/17P [+]

REQUEST FOR EXAMINATION FILED  
901219

- 19920122 EP/17Q [+]

FIRST EXAMINATION REPORT  
911209

- 19920930 EP/AK-B1 [+]

DESIGNATED CONTRACTING STATES MENTIONED IN A PATENT SPECIFICATION:  
DE FR GB

- 19920930 EP/B1 [+]

PATENT SPECIFICATION

- 19921105 EP/REF-P

CORRESPONDS TO:

(DE 68903091 19921105 [DE68903091])

- 19921113 EP/ET [+]

FR: TRANSLATION FILED

- 19930922 EP/26N [+]

NO OPPOSITION FILED

- 19980701 EP/GBPC [-]

GB: EUROPEAN PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE  
971108

- 19981002 EP/REG; FR/ST [-]

FR: LAPSED

<FR>  
UP - 1998-46

5/25 INPADOC - (C) INPADOC  
PN - EP 369672 B1 19920930 [EP-369672]  
TI - WINDSHIELD WIPER  
LA - E; ENG  
IN - ARAI MASARU C O NIPPON WIPERBL [JP]; SAITA ITSURO C O NIPPON WIPERB [JP]  
PA - NIPPON WIPER BLADE CO LTD [JP]  
AP - EP 89311562/89-A 19891108 [1989EP-0311562]  
PR - JP 148104/88-U 19881115 [1988JP-U148104]  
- JP 11415/89-U 19890203 [1989JP-U011415]  
- JP 13615/89-U 19890209 [1989JP-U013615]  
IC - B60S-001/32  
DS - DE\* FR\* GB\*

1/2 LEGALI - (C) LEGSTAT  
PN - DE 68903091 [DE68903091]  
DT - DE-P  
ACTE- 19921105 DE/REF-P  
CORRESPONDS TO  
(EP 369672 19921105 [EP-369672])  
- 19930225 DE/8373  
TRANSLATION OF PATENT DOCUMENT OF EUROPEAN PATENT WAS RECEIVED AND HAS  
BEEN PUBLISHED  
- 19931028 DE/8364 [+]  
NO OPPOSITION DURING TERM OF OPPOSITION  
- 19981210 DE/8339 [-]  
CEASED/NON-PAYMENT OF THE ANNUAL FEE  
UP - 1998-51

2/2 LEGALI - (C) LEGSTAT  
PN - EP 369672 [EP-369672]  
AP - EP 89311562/89 19891108 [1989EP-0311562]  
DT - EP-P  
ACTE- 19891108 EP/AE-A  
EP-APPLICATION  
{EP 89311562/89 19891108 [1989EP-0311562]}  
- 19900523 EP/AK-A2 [+]  
DESIGNATED CONTRACTING STATES IN AN APPLICATION WITHOUT SEARCH REPORT:  
DE FR GB  
- 19900523 EP/A2 [+]  
PUBLICATION OF APPLICATION WITHOUT SEARCH REPORT  
- 19900530 EP/RPR1  
PRIORITY (CORRECTION)  
JP 881115 148104/88 U \* JP 890203 11415/89 U \* JP 890209 13615/89  
U  
- 19901107 EP/AK-A3 [+]  
DESIGNATED CONTRACTING STATES IN A SEARCH REPORT:  
DE FR GB  
- 19901107 EP/A3 [+]  
SEPARATE PUBLICATION OF THE SEARCH REPORT (ART. 93)  
- 19910220 EP/17P [+]  
REQUEST FOR EXAMINATION FILED  
901219  
- 19920122 EP/17Q [.]



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FIRST EXAMINATION REPORT

911209

- 19920930 EP/AK-B1 [+]
- DESIGNATED CONTRACTING STATES MENTIONED IN A PATENT SPECIFICATION:  
DE FR GB
- 19920930 EP/B1 [+]
- PATENT SPECIFICATION
- 19921105 EP/REF-P
- CORRESPONDS TO:  
(DE 68903091 19921105 [DE68903091])
- 19921113 EP/ET [+]
- FR: TRANSLATION FILED
- 19930922 EP/26N [+]
- NO OPPOSITION FILED
- 19980701 EP/GBPC [-]
- GB: EUROPEAN PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE  
971108
- 19981002 EP/REG; FR/ST [-]
- FR: LAPSED  
<FR>
- UP - 1998-46

6/25 INPADOC - (C) INPADOC

- PN - JP 2003161 A2 19900108 [JP02003161]
- TI - MEMORY CIRCUIT
- IN - ETO JUN; ITO KIYOO; KAWAJIRI YOSHIKI
- PA - HITACHI LTD
- AP - JP 148104/88-A 19880617 [1988JP-0148104]
- PR - JP 148104/88-A 19880617 [1988JP-0148104]
- IC - G11C-011/409

7/25 INPADOC - (C) INPADOC

- PN - JP 2071491 A2 19900312 [JP02071491]
- TI - SEMICONDUCTOR DEVICE
- IN - ETO JUN; ITO KIYOO; KAWAJIRI YOSHIKI
- PA - HITACHI LTD
- AP - JP 222317/88-A 19880907 [1988JP-0222317]
- PR - JP 222317/88-A 19880907 [1988JP-0222317]
- IC - G11C-011/401; G06F-001/32

8/25 INPADOC - (C) INPADOC

- PN - JP 2194248 A2 19900731 [JP02194248]
- TI - EXTERIOR PANEL FITTING DEVICE FOR BUILDING
- IN - HANAOKA KATSUHIKO; TANAKA HIROSHI; USUI KENICHI
- PA - KIKUKAWA KOGYO
- AP - JP 13615/89-A 19890123 [1989JP-0013615]
- PR - JP 13615/89-A 19890123 [1989JP-0013615]
- IC - E04F-013/08; E04G-023/02

9/25 INPADOC - (C) INPADOC

- PN - JP 2195100 A2 19900801 [JP02195100]
- TI - INFORMATION ARRANGEMENT AND REFERENCE METHOD IN HIERARCHY ORGANIZATION  
SYSTEM
- IN - ENDO TSUTOMU
- PA - FUJI ELECTRIC CO LTD; FUJI FACOM CORP

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09/864338

AP - JP 11415/89-A 19890120 [1989JP-0011415]  
PR - JP 11415/89-A 19890120 [1989JP-0011415]  
IC - F17D-001/08; E03D-001/00; F04B-049/06

10/25 INPADOC - (C) INPADOC

PN - JP 2210688 A2 19900822 [JP02210688]  
TI - SEMICONDUCTOR DEVICE  
IN - NAKAGOME YOSHINOBU; ITO KIYOO  
PA - HITACHI LTD  
AP - JP 29803/89-A 19890210 [1989JP-0029803]  
PR - JP 29803/89-A 19890210 [1989JP-0029803]  
IC - G11C-011/406; G11C-011/401; H01L-027/04; H01L-027/108; H01L-029/784

11/25 INPADOC - (C) INPADOC

PN - JP 2246089 A2 19901001 [JP02246089]  
TI - SEMICONDUCTOR INTEGRATED CIRCUIT  
IN - KUME EIJI; TANAKA HITOSHI; NAKAGOME YOSHINOBU; KAWAJIRI YOSHIKI; ITO KIYOO  
PA - HITACHI LTD; HITACHI VLSI ENG  
AP - JP 66175/89-A 19890320 [1989JP-0066175]  
PR - JP 66175/89-A 19890320 [1989JP-0066175]  
IC - G11C-011/409

12/25 INPADOC - (C) INPADOC

PN - JP 6092689 B4 19941116 [JP94092689]  
AP - JP 13615/89-A 19890123 [1989JP-0013615]  
PR - JP 13615/89-A 19890123 [1989JP-0013615]  
IC - E04F-013/08; E04F-013/12; E04G-023/02

13/25 INPADOC - (C) INPADOC

PN - JP 7117199 B4 19951218 [JP95117199]  
AP - JP 11415/89-A 19890120 [1989JP-0011415]  
PR - JP 11415/89-A 19890120 [1989JP-0011415]  
IC - F17D-001/08; E03B-001/00; F04B-049/06

14/25 INPADOC - (C) INPADOC

PN - JP 2765856 B2 19980618 [JP2765856]  
IN - ETO JUN; ITO KYOO; KAWAJIRI YOSHIKI  
PA - HITACHI LTD  
AP - JP 148104/88-A 19880617 [1988JP-0148104]  
PR - JP 148104/88-A 19880617 [1988JP-0148104]  
IC - G11C-011/404; G11C-011/407; G11C-011/409; H01L-021/8242; H01L-027/108

15/25 INPADOC - (C) INPADOC

PN - JP 2796311 B2 19980910 [JP2796311]  
IN - ETO JUN; ITO KYOO; KAWAJIRI YOSHIKI  
PA - HITACHI LTD  
AP - JP 222317/88-A 19880907 [1988JP-0222317]  
PR - JP 222317/88-A 19880907 [1988JP-0222317]  
IC - G11C-011/404; G11C-011/407; H01L-021/8242; H01L-027/108

16/25 INPADOC - (C) INPADOC

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RE 37593

09/864338

PN - JP 2914989 B2 19990705 [JP2914989]  
IN - NAKAGOME YOSHINOBU; ITO KYOO  
PA - HITACHI LTD  
AP - JP 29803/89-A 19890210 [1989JP-0029803]  
PR - JP 29803/89-A 19890210 [1989JP-0029803]  
IC - G11C-011/407; G05F-001/56; G11C-011/413; H01L-021/822; H01L-021/8242;  
H01L-027/04; H01L-027/108

17/25 INPADOC - (C) INPADOC

PN - JP 2934448 B2 19990816 [JP2934448]  
IN - KUME EIJI; TANAKA HITOSHI; NAKAGOME YOSHINOBU; KAWAJIRI YOSHIKI; ITO  
KYOO  
PA - HITACHI LTD; HITACHI CHO ERU ESU AI SHISUTE  
AP - JP 66175/89-A 19890320 [1989JP-0066175]  
PR - JP 66175/89-A 19890320 [1989JP-0066175]  
IC - G11C-011/409; G11C-011/407; G11C-011/419; H01L-021/8242; H01L-027/108

18/25 INPADOC - (C) INPADOC

PN - KR 9205108 Y1 19920727 [KRU925108]  
TI - COMPACT DISC PLAYER  
IN - LEE HAN-BAEK [KR]  
PA - INKEL CO LTD [KR]  
AP - KR 9008373/90-U 19900614 [1990KR-U008373]  
PR - KR 9008373/90-U 19900614 [1990KR-U008373]  
IC - G11B-017/04

19/25 INPADOC - (C) INPADOC

PN - KR 156542 B1 19981201 [KR-156542]  
TI - SEMICONDUCTOR APPARATUS  
IN - JUN ETOH [JP]; KIYO ITO [JP]; YOSHIKI KAWAJIRI [JP]; YOSHINOBU  
NAKAGOME [JP]; EIJI KUME [JP]; HITOSHI TANAKA [JP]  
PA - HITACHI LTD [JP]; HITACHI VLSI ENGINEERING LTD [JP]  
AP - KR 8908373/89-A 19890617 [1989KR-0008373]  
PR - JP 148104/88-A 19880617 [1988JP-0148104]  
IC - G11C-011/21

20/25 INPADOC - (C) INPADOC

PN - KR 174818 B1 19990401 [KR-174818]  
TI - LARGE SCALE INTEGRATED CIRCUIT FOR LOW VOLTAGE OPERATION  
IN - ETOH JUN [JP]; ITOH KIYOO [JP]; KAWAJIRI YOSHIKI [JP]; NAKAGOME  
YOSHINOBU [JP]; KUME EIJI [JP]; TANAKA HITOSHI [JP]  
PA - HITACHI LTD [JP]; HITACHI VLSI ENGINEERING [JP]  
AP - KR 9814893/98-A 19980427 [1998KR-0014893]  
PR - KR 9814893/98-A 19980427 [1998KR-0014893]  
- JP 148104/88-A 19880617 [1988JP-0148104]  
- JP 222317/88-A 19880907 [1988JP-0222317]  
- JP 29803/89-A 19890210 [1989JP-0029803]  
- JP 66175/89-A 19890320 [1989JP-0066175]  
- KR 9008373/90-A3 19900608 [1990KR-0008373]  
IC - G11C-011/21

21/25 INPADOC - (C) INPADOC

PN - US 37593 E1 20020319 [US--37593]  
TI - LARGE SCALE INTEGRATED CIRCUIT WITH SENSE AMPLIFIER CIRCUITS FOR LOW

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VOLTAGE OPERATION

IN - ETOH JUN [JP]; ITOH KIYOO [JP]; KAWAJIRI YOSHIKI [JP]; NAKAGOME  
YOSHINOBU [JP]; KUME EIJI [JP]; TANAKA HITOSHI [JP]  
PA - HITACHI LTD [JP]; HITACHI ULSI SYS CO LTD [JP]  
AP - US 95101/98-A 19980610 [1998US-0095101]  
PR - US 95101/98-A 19980610 [1998US-0095101]  
- JP 148104/88-A 19880617 [1988JP-0148104]  
- JP 222317/88-A 19880907 [1988JP-0222317]  
- JP 29803/89-A 19890210 [1989JP-0029803]  
- JP 66175/89-A 19890320 [1989JP-0066175]  
- US 104508/93-A5 19930810 [1993US-0104508]  
- US 366869/89-A1 19890614 [1989US-0366869]  
IC - G11C-007/00; H02J-003/38

22/25 INPADOC - (C) INPADOC

PN - US 4984325 A 19910115 [US4984325]  
TI - WINDSHIELD WIPER  
IN - ARAI MASARU [JP]; SAITA ITSURO [JP]  
PA - NIPPON WIPER BLADE CO LTD [JP]  
AP - US 432877/89-A 19891107 [1989US-0432877]  
PR - JP 148104/88-U 19881115 [1988JP-U148104]  
- JP 11415/89-U 19890203 [1989JP-U011415]  
- JP 13615/89-U 19890209 [1989JP-U013615]  
IC - A47L-001/00

1/1 LEGALI - (C) LEGSTAT

PN - US 4984325 [US4984325]  
AP - US 432877/89 19891107 [1989US-0432877]  
DT - US-P  
ACTE- 19891107 US/AE-A  
APPLICATION DATA (PATENT)  
{US 432877/89 19891107 [1989US-0432877]}  
- 19891107 US/AS02  
ASSIGNMENT OF ASSIGNOR'S INTEREST  
NIPPON WIPERBLADE CO., LTD., 998, OAZA KAMIOCHIAI, YONO-SHI,  
SAITAMA-KEN, JAPAN \* ARAI, MASARU : 19891026; SAITA, ITSURO : 19891026  
- 19910115 US/A  
PATENT  
- 19990330 US/FP [-]  
EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE  
990115  
UP - 1999-15

23/25 INPADOC - (C) INPADOC

PN - US 5262999 A 19931116 [US5262999]  
TI - LARGE SCALE INTEGRATED CIRCUIT FOR LOW VOLTAGE OPERATION  
IN - ETOH JUN [JP]; ITOH KIYOO [JP]; KAWAJIRI YOSHIKI [JP]; NAKAGOME  
YOSHINOBU [JP]; KUME EIJI [JP]; TANAKA HITOSHI [JP]  
PA - HITACHI LTD [JP]; HITACHI VLSI ENG [JP]  
AP - US 838505/92-A 19920324 [1992US-0838505]  
PR - US 366869/89-A3 19890614 [1989US-0366869]  
- JP 148104/88-A 19880617 [1988JP-0148104]  
- JP 222317/88-A 19880907 [1988JP-0222317]  
- JP 29803/89-A 19890210 [1989JP-0029803]  
- JP 66175/89-A 19890320 [1989JP-0066175]  
IC - G11C-005/14; G11C-007/00

1/1 LEGALI - (C) LEGSTAT

PN - US 5262999 [US5262999]

AP - US 838505/92 19920324 [1992US-0838505]

DT - US-P

ACTE- 19920324 US/AE-A

APPLICATION DATA (PATENT)

{US 838505/92 19920324 [1992US-0838505]}

- 19931116 US/A

PATENT

- 19940531 US/CC

CERTIFICATE OF CORRECTION

UP - 1994-28

24/25 INPADOC - (C) INPADOC

PN - US 5297097 A 19940322 [US5297097]

TI - LARGE SCALE INTEGRATED CIRCUIT FOR LOW VOLTAGE OPERATION

IN - ETOH JUN [JP]; ITOH KIYOO [JP]; KAWAJIRI YOSHIKI [JP]; NAKAGOME YOSHINOBU [JP]; KUME EIJI [JP]; TANAKA HITOSHI [JP]

PA - HITACHI LTD [JP]; HITACHI VLSI ENGINEERING [JP]

AP - US 366869/89-A 19890614 [1989US-0366869]

PR - JP 148104/88-A 19880617 [1988JP-0148104]

- JP 222317/88-A 19880907 [1988JP-0222317]

- JP 29803/89-A 19890210 [1989JP-0029803]

- JP 66175/89-A 19890320 [1989JP-0066175]

IC - G11C-005/14; G11C-011/407

1/1 LEGALI - (C) LEGSTAT

PN - US 5297097 [US5297097]

AP - US 366869/89 19890614 [1989US-0366869]

DT - US-P

ACTE- 19890614 US/AE-A

APPLICATION DATA (PATENT)

{US 366869/89 19890614 [1989US-0366869]}

- 19890614 US/AS02

ASSIGNMENT OF ASSIGNOR'S INTEREST

HITACHI, LTD., 6, KANDA SURUGADAI 4-CHOME, CHIYODA-KU, TOKYO, JAPAN A  
CORP. OF J \* ETOH, JUN : 19890608; ITOH, KIYOO : 19890608; KAWAJIRI,  
YOSHIKI : 19890608; NAKAGOME, YOSHINOBU : 19890608; KUME, EIJI :  
19890608;

- 19940322 US/A

PATENT

- 19940726 US/CC

CERTIFICATE OF CORRECTION

- 19990323 US/RF

REISSUE APPLICATION FILED

980610

UP - 1999-15

25/25 INPADOC - (C) INPADOC

PN - US 5526313 A 19960611 [US5526313]

TI - LARGE SCALE INTEGRATED CIRCUIT WITH SENSE AMPLIFIER CIRCUITS FOR LOW VOLTAGE OPERATION

IN - ETOH JUN [JP]; ITOH KIYOO [JP]; KAWAJIRI YOSHIKI [JP]; NAKAGOME YOSHINOBU [JP]; KUME EIJI [JP]; TANAKA HITOSHI [JP]

8/8/02

RE 37593

09/864338

PA - HITACHI LTD [JP]; HITACHI VLSI ENG [JP]  
AP - US 104508/93-A 19930810 [1993US-0104508]  
PR - US 104508/93-A 19930810 [1993US-0104508]  
- JP 148104/88-A 19880617 [1988JP-0148104]  
- JP 222317/88-A 19880907 [1988JP-0222317]  
- JP 29803/89-A 19890210 [1989JP-0029803]  
- JP 66175/89-A 19890320 [1989JP-0066175]  
- US 366869/89-A1 19890614 [1989US-0366869]  
IC - G11C-007/00

1/1 LEGALI - (C) LEGSTAT

PN - US 5526313 [US5526313]  
AP - US 104508/93 19930810 [1993US-0104508]  
DT - US-P  
ACTE- 19930810 US/AE-A  
APPLICATION DATA (PATENT)  
{US 104508/93 19930810 [1993US-0104508]}  
- 19960611 US/A  
PATENT  
- 19981130 US/AS01  
CHANGE OF NAME  
HITACHI ULSI SYSTEMS CO., LTD. 22-1, JOSUIHONCHO 5-CHOME KODAIRA-SHI,  
TOKYO, JAP \* HITACHI VLSI ENGINEERING CORPORATION : 19980827  
- 20011204 US/RF  
REISSUE APPLICATION FILED  
20010525  
UP - 2001-50



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- ☐ ① 1. MERCK & CO. v. COMMERCIAL SOLVENTS CORP., Civ. A. No. 13574, UNITED STATES DISTRICT COURT FOR THE DISTRICT OF MARYLAND, 225 F. Supp. 318; 1964 U.S. Dist. LEXIS 9770; 140 U.S.P.Q. (BNA) 172, January 7, 1964

**OVERVIEW:** As questions of fact were raised in plaintiffs' patent infringement action, defendant's motion for summary judgment was denied; questions of fact were not properly decided on motion for summary judgment.

**CORE TERMS:** patent, allowance, invention, continuation-in-part, summary judgment, oath, subject matter, filing date, patenting, termination...

... application Serial No. **37,593**, filed June 21, ...  
... application Serial No. **37,593**, filed on February 10, ...  
... between Serial No. **37,593** as filed and Serial No. ...  
... application Serial No. **37,593**, and examples 9 and 10 ...  
... by Serial No. **37,593**, filed June 21, ...  
... supporting Serial No. **37,593** was verbatim as to subject matter common to Serial Nos. **37,593** and/or 717,068 and/or 624,198. Defendant ...

- ☐ 2. Harmonized Tariff Schedule of the United States[PART 21 OF 25], Investigation No. 731-TA-739 (Preliminary), 1995 ITC LEXIS 598, UNITED STATES INTERNATIONAL TRADE COMMISSION, December 12, 1995  
... 37592-72-6 **37593**-02-5 **37593**-03-6 37599- ...

- ☐ 3. CERTAIN FABRICATED STRUCTURAL STEEL FROM CANADA. Determination of the Commission in Investigation No. 731-TA-387 (Preliminary) Under the Tariff Act of 1930, Together With the Information Obtained in the Investigation., Investigation No. 731-TA-387 (Preliminary), 1988 ITC LEXIS 10, USITC PUBLICATION 2062, UNITED STATES INTERNATIONAL TRADE COMMISSION, FEBRUARY 1988

**CORE TERMS:** fabricated, structural steel, import, producer, bid, fabricator, questionnaire, domestic, ton, shipment...

... Table E-2 Income-and-loss experience of U.S. producers of fabricated structural steel for buildings on their operations producing all fabricated structural steel, accounting years 1984-86, and interim periods ending Sept. 30, 1986, and Sept. 30, 1987 Interim periods ending Sept. 30- Item19841985198619861987 ...  
administrative expenses**37,593**43,33844,30630,37831,216





4. COLOR PICTURE TUBES FROM CANADA, JAPAN, THE REPUBLIC OF KOREA, AND SINGAPORE. Determinations of the Commission in Investigations Nos. 731-TA-367 Through 370 (Preliminary) Under the Tariff Act of 1930, Together With the Information Obtained in the Investigations., Investigations Nos. 731-TA-367 Through 370 (Preliminary), 1987 ITC LEXIS 255, USITC PUBLICATION 1937, UNITED STATES INTERNATIONAL TRADE COMMISSION, JANUARY 1987

**CORE TERMS:** picture tubes, color, import, receiver, tube, u.s., picture tube, imported, producer, incomplete...

... Table 21. -- Color picture tubes: Apparent U.S. consumption and market penetration of imports, by screen sizes, 1983-85, January-September 1985, and January-September 1986 Apparent consumption Jan.-Sept. --  
Item19831984198519851986 ... Singapore7,7487,162**37,5936**,2018,673

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